MULTIMEDIA UNIVERSITY ®

STUDENT ID NO

MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 2, 2022/2023 (Term 2220)

PCA0084 – COMPUTER SYSTEM AND WEB DESIGN

(Foundation in Business)

12 July 2023
9.00 am – 11.00 am
(2 Hours)

INSTRUCTIONS TO STUDENT

1. This question paper consists of **TWO** pages (excluding the cover page).
2. Answer **ALL** questions.
3. Write your answers in the Answer Booklet provided.

QUESTION 1 [10 Marks]

a. Kamal wanted to buy a smart TV but he was not sure what to look for. He asked the advice from the salesperson and he recommended smart TV with LCD display. He explained to Kamal the quality of the LCD display. Explain **TWO (2)** of the criteria that determine the quality of the LCD display. (4 marks)

b. Bit and byte are data representation of a computer. What is bit and byte, and how are they representing the data and information? (3 marks)

c. Susan is contemplating whether to use cloud storage or not. She is not convinced of the benefits of using cloud storage. Explain to Susan **THREE (3)** advantages of saving files at cloud storage. (3 marks)

QUESTION 2 [10 Marks]

a. Tan wants to buy a new laptop. He searched the Internet for the laptop specification. One of the results of his search gives the below specification.

PRODUCT FEATURES

- Intel Core i7 8th Gen
- Quad Core, 1.8 GHz Clock Speed
- 8 GB RAM
- 512 GB Hard Disk
- Intel UHD Graphics 620
- 13.3 inches, 1920 x 1080 pixels
- Windows 10 OS

What does the specification notify Tan about the computer's processor, memory and display screen? (3 marks)

b. One of functions of operating system is booting. What is booting? How is warm boot different from the cold boot? (3 marks)

c. In the table below is a list of software categories and example of application software. Match the words in the left column with the appropriate pair in the right column.

a. Business	i. Email, FTP, Web, Browser
b. Graphics and Multimedia	ii. Desktop Publishing (Personal Use), Tax preparation, Home Design
c. Home/Personal/Educational	iii. CAD, Video and Audio Editing, Multimedia Authoring
d. Communications	iv. Note Taking, Project Management, Accounting

(2 marks)

Continued...

d. What is the difference between storage device and storage medium?

(2 marks)

QUESTION 3 [10 Marks]

a. In a network, communication devices are the devices that you must have. Identify any **THREE (3)** of the devices and their functions. (6 marks)

b. Read the following statements and explain the word in bold and underlined.
   i. Wong is doing his work while enjoying a cup of coffee using the free **Wi-Fi** at Starbuck.
   ii. Wong uses a **Bluetooth** mouse to navigate and interact with his computer.

(4 marks)

QUESTION 4 [10 Marks]

a. In database, to ensure the integrity of data, validity check is carried out. Identify and explain **THREE (3)** of the validity checks that are carried out.

(6 marks)

b. What is the difference between vector graphics and bitmapped graphics? Give **TWO (2)** advantages of using vector graphics.

(4 marks)

QUESTION 5 [10 marks]

a. Identification and authentication are the most common access control used to avoid an unauthorized access and use. What are the **THREE (3)** popular methods of identification and authentication and explain each of these methods.

(6 marks)

b. What is a virus signature and how does it work in anti-virus program? Why is it important to update the virus signature regularly?

(4 marks)

End of Paper